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 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  May 12   EXTEND option available in structure searching
 NEWS  4  May 12   Polymer links for the POLYLINK command completed in REGISTRY
 NEWS  5  May 27   New UPM (Update Code Maximum) field for more efficient patent
                   SDIs in CAplus
 NEWS  6  May 27   CAplus super roles and document types searchable in REGISTRY
 NEWS  7  Jun 22   STN Patent Forums to be held July 19-22, 2004
 NEWS  8  Jun 28   Additional enzyme-catalyzed reactions added to CASREACT
 NEWS  9  Jun 28   ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
                   and WATER from CSA now available on STN(R)
 NEWS 10  Jul 12   BEILSTEIN enhanced with new display and select options,
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               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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FILE 'EUROPATFULL' ENTERED AT 17:30:16 ON 14 JUL 2004
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=> s implant and collagen?
L1       14550 IMPLANT AND COLLAGEN?

=> s l1 and (gel or paste or solution)
L2        8407 L1 AND (GEL OR PASTE OR SOLUTION)

=> s l2 and (particle? or particul?)
L3        7758 L2 AND (PARTICLE? OR PARTICUL?)

=> s l3 and microns
L4        1934 L3 AND MICRONS

=> s l4 and (original architecture)
L5           5 L4 AND (ORIGINAL ARCHITECTURE)

=> d l5 1-5 ibib abs

L5   ANSWER 1 OF 5  USPATFULL on STN
ACCESSION NUMBER:        2004:4289  USPATFULL
TITLE:                   Prosthetic kidney and its use for treating kidney
                         disease
INVENTOR(S):             Atala, Anthony, Weston, MA, United States
                         Yoo, James J., Brookline, MA, United States
                         Ashkar, Samy, Boston, MA, United States
PATENT ASSIGNEE(S):      Children's Medical Center Corporation, Boston, MA,
                         United States (U.S. corporation)

                              NUMBER        KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 6673339          B1   20040106
                         WO 9809582               19980312
APPLICATION INFO.:       US 1999-254476           19990526  (9)
                         WO 1997-US15470          19970904

                                NUMBER         DATE
                         ------------------ --------
PRIORITY INFORMATION:    US 1996-25511P     19960905 (60)
DOCUMENT TYPE:           Utility
FILE SEGMENT:            GRANTED
PRIMARY EXAMINER:        McDermott, Corrine
ASSISTANT EXAMINER:      Pellegrino, Brian E
LEGAL REPRESENTATIVE:    Engellenner, Thomas, Sagoo, Jasbir, Nutter, McClennen &
                         Fish, LLP
NUMBER OF CLAIMS:        18
EXEMPLARY CLAIM:         1
NUMBER OF DRAWINGS:      24 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT:              1470
AB       The invention is directed to a prosthetic kidney, to methods of making a
         prosthetic kidney and to methods of treating kidney disease with a
```

prosthetic kidney. The prosthetic kidney comprises nephron analogs on the exterior surface and an enclosed porous membrane structure equipped with an effluent channel for collecting and draining urine from the device. The nephron analogs are prepared by implanting a device containing renal tubule analogs on the membrane structures and inducing angiogenesis to form glomeruli-like structures. The renal tubule analogs are prepared by seeding kidney cells on the porous membrane structure and culturing this composite in vitro.

L5 ANSWER 2 OF 5 USPATFULL on STN
ACCESSION NUMBER: 2002:61564 USPATFULL
TITLE: Osteogenic implants derived from bone
INVENTOR(S): Boyce, Todd M., Aberdeen, NJ, UNITED STATES
Kaes, David, Toms River, NJ, UNITED STATES
Scarborough, Nelson L., Ocean, NJ, UNITED STATES
PATENT ASSIGNEE(S): OSTEOTECH, INC. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002035401	A1	20020321
APPLICATION INFO.:	US 2001-973597	A1	20011009 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 2000-610026, filed on 3 Jul 2000, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Peter G. Dilworth, Esq., DILWORTH & BARRESE, LLP, 333 Earle Ovington Blvd., Uniondale, NY, 11553
NUMBER OF CLAIMS: 40
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 1250
AB An osteogenic osteoimplant in the form of a flexible sheet comprising a coherent mass of bone-derived **particles**, the osteoimplant having a void volume not greater than about 32% and a method of making an osteogenic osteoimplant having not greater than about 32% void volume, the method comprising: providing a coherent mass of bone-derived **particles**; and, mechanically shaping the coherent mass of bone-derived **particles** to form an osteogenic osteoimplant in the form of a flexible sheet.

L5 ANSWER 3 OF 5 EUROPATFULL COPYRIGHT 2004 WILA on STN

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 1296726 EUROPATFULL EW 200406 FS PS
TITLE: OSTEOGENIC IMPLANTS DERIVED FROM BONE.
KNOCHENBILDENDES IMPLANTAT AUS KNOCHEN.
IMPLANTS OSTEOGENIQUES DERIVES D'UNE MASSE OSSEUSE.
INVENTOR(S): BOYCE, Todd, M., 515 Wellington Place, Aberdeen, NJ 07747, US;
KAES, David, 2198 Old Church Road, Toms River, NJ 08753, US;
SCARBOROUGH, Nelson, L., 430 River Road, Andover, Mass 01810, US
PATENT ASSIGNEE(S): Osteotech, Inc.,, 51 James Way, Eatontown, NJ 07724, US
PATENT ASSIGNEE NO: 1118232
AGENT: Laufhuette, Dieter, Dr.-Ing., Lorenz-Seidler-Gossel Widenmayerstrasse 23, 80538 Muenchen, DE
AGENT NUMBER: 61841
OTHER SOURCE: MEPB2004006 EP 1296726 B1 0021
SOURCE: Wila-EPS-2004-H06-T1
DOCUMENT TYPE: Patent

LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R DE; R ES; R FR; R GB; R IT; R TR
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale Anmeldung)
PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 1296726	B1	20040204
'OFFENLEGUNGS' DATE:		20030402
APPLICATION INFO.: EP 2001-948706		20010627
PRIORITY APPLN. INFO.: US 2000-610026		20000703
RELATED DOC. INFO.: WO 200US1020220		010627 INTAKZ
WO 2002002156		020110 INTPNR
REFERENCE PAT. INFO.: EP 483944 A		WO -35510 A
WO -50102 A		WO 97-25941 A
WO 99-39757 A		US 5236456 A
US 5507813 A		

L5 ANSWER 4 OF 5 EUROPATFULL COPYRIGHT 2004 WILA on STN

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 1112096 EUROPATFULL EW 200313 FS PS
TITLE: **COLLAGENOUS** TISSUE COMPOSITIONS.
ZUSAMMENSETZUNGEN VON KOLLAGENGEWEBEN.
COMPOSITIONS POUR TISSUS A BASE DE MATIERE **COLLAGENE**.
INVENTOR(S): OLIVER, Roy, Frederick, Priorwell House Gauldry, Fife DD6 8SE, GB;
GRANT, Roy, Arthur, 15 Pine Park Mansions 1-3 Wilderton Road, Branksome Park Poole Dorset BH13 6EB, GB
PATENT ASSIGNEE(S): Tissue Science Laboratories plc, Victoria House, Victoria Road, Aldershot, Hampshire GU11 1EJ, GB
PATENT ASSIGNEE NO: 4173941
AGENT: Wilson Gunn M'Caw, 41-51 Royal Exchange, Cross Street, Manchester M2 7BD, GB
AGENT NUMBER: 101771
OTHER SOURCE: MEPB2003013 EP 1112096 B1 0006
SOURCE: Wila-EPS-2003-H13-T1
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale Anmeldung)
PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 1112096	B1	20030326
'OFFENLEGUNGS' DATE:		20010704
APPLICATION INFO.: EP 1999-946309		19990910
PRIORITY APPLN. INFO.: GB 1998-19882		19980911
RELATED DOC. INFO.: WO 99-GB3013		990910 INTAKZ
WO 00015274		000323 INTPNR
REFERENCE PAT. INFO.: EP 83868 A		EP 251695 A
EP 697218 A		WO 93-13755 A
US 4582640 A		US 4837285 A
US 5256140 A		US 5523291 A
US 5705488 A		

L5 ANSWER 5 OF 5 EUROPATFULL COPYRIGHT 2004 WILA on STN

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 929271 EUROPATFULL EW 200409 FS PS
TITLE: PROSTHETIC KIDNEY.
NIERENPROTHESE.
REIN PROTHETIQUE.
INVENTOR(S): ATALA, Anthony, 74 Westerly Road, Weston, MA 02193, US;
YOO, James, J., Apartment B311, 20 Chapel Street, Brookline, MA 02146, US;
ASHKAR, Samy, Apartment 606, 12 Stoneholm Street, Boston, MA 02115, US
PATENT ASSIGNEE(S): CHILDREN'S MEDICAL CENTER CORPORATION, 300 Longwood Avenue, Boston Massachusetts 02115, US
PATENT ASSIGNEE NO: 629161
AGENT: Strehl Schuebel-Hopf & Partner, Maximilianstrasse 54, 80538 Muenchen, DE
AGENT NUMBER: 100941
OTHER SOURCE: MEPB2004009 EP 0929271 B1 0036
SOURCE: Wila-EPS-2004-H09-T2
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale Anmeldung)
PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 929271	B1	20040225
'OFFENLEGUNGS' DATE:		19990721
APPLICATION INFO.:	EP 1997-941403	19970904
PRIORITY APPLN. INFO.:	US 1996-25511	19960905
RELATED DOC. INFO.:	WO 199US7015470	970904 INTAKZ
	WO 1998009582	980312 INTPNR
REFERENCE PAT. INFO.:	WO 93-07913 A	US 4769037 A
	US 5429938 A	US 5516680 A
	US 5549674 A	

REF. NON-PATENT-LIT.: DATABASE MEDLINE US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US Medline accession no. 95345386, COURJAULT-GAUTIER F. ET AL.: XP002055434 & J. AM. SOC. NEPHROL, vol. 5, no. 11, May 1995, pages 1949-1963, DATABASE EMBASE ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL Medline accession no. 96257381, FOURNIER N. ET AL.: "Biological molecule-impregnated polyester: An in vivo angiogenesis study" XP002055435 & BIOMATERIALS, vol. 17, no. 17, 1996, pages 1659-1665, DATABASE MEDLINE US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US Medline accession no. 91029709, BOOGAARD P.J. ET AL.: "Renal proximal tubular cells in suspension or in primary culture as in vitro models to study nephrotoxicity" XP002055436 & CHEM. BIOL INTERACT, vol. 76, no. 3, 1990, pages 251-291, DATABASE MEDLINE US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US HUMES H.D. ET AL.: "Tubulogenesis from isolated single cells of adult mammalian kidney - clonal analysis with a recombinant retrovirus" XP002055437 & AMERICAN JOURNAL OF PHYSIOLOGY-RENAL FLUID AND ELECTROLYTE PHYSIOLOGY, vol. 40, no. 1, JULY, pages F42-F49, DATABASE MEDLINE US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US Medline accession no. 95358356, GENESTIE I. ET AL.: "Polarity and transport properties of rabbit kidney proximal tubule cells on collagen IV-coated porous membranes" XP002055438 & AM. J. PHYSIOL, vol. 269, no. 1, part 2, July 1995, pages F22-F30, H. DAVID HUMES ET AL.: "Effects of Transforming Growth Factor-beta, Transforming Growth Factor-alpha, and Other Growth

Factors on Renal Proximal Tubule Cells" LABORATORY INVESTIGATION, vol. 64, no. 4, 1991, XP002055432 MARY TAUB ET AL.: "Epidermal growth factor alpha is required for kidney tubulogenesis in matrigel cultures in serum-free medium" PROC. NATL. ACAD. SCI., vol. 87, May 1990, XP002055433

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     FILE 'CAPLUS, USPATFULL, JAPIO, MEDLINE, BIOSIS, EMBASE, EUROPATFULL'
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L2          8407 S L1 AND (GEL OR PASTE OR SOLUTION)
L3          7758 S L2 AND (PARTICLE? OR PARTICUL?)
L4          1934 S L3 AND MICRONS
L5             5 S L4 AND (ORIGINAL ARCHITECTURE)

=> s l4 and (non antigenic)
L6            42 L4 AND (NON ANTIGENIC)

=> s l6 and (biocompatible carrier)
L7             2 L6 AND (BIOCOMPATIBLE CARRIER)

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             REN, IC (ICM, ICS), ICA, ICI, CM, FA, GIS, PGC, CLMN, AB,
             ABDE, ABFR, DETD, DETDDE, DETDFR, CLMDE, CLMFR
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MAXG.OS ---- MAX.OS plus GI
MAX.PS ----- MAX, PS only
IMAX ------- MAX, indented with text labels
IMAX.OS ---- MAX, indented with text labels, OS only
IMAX.PS ---- MAX, indented with text labels, PS only

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             LA, DS, PIT, PI, OD, AI, PRAI, RLI, NTE, REP, REN, IC (ICM,
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ALL.PS ----- ALL, PS only
IALL ------- ALL, indented with text labels
IALLG ------ IALL plus GI
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             LA, DS, PIT, PI, OD, AI, PRAI, RLI, NTE, REP, REN, IC (ICM,
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             (* English or French text if German text is not available)
ALLGDE ----- ALLDE plus GI
ALLDE.OS --- ALLDE, OS only
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ALLGDE.OS -- ALLDE.OS plus GI
ALLDE.PS --- ALLDE, PS only

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             LA, DS, PIT, PI, OD, AI, PRAI, RLI, NTE, REP, REN, IC (ICM,
             ICS), ICA, ICI, CM, FA, GIS, PGC, CLMN, ABFR* , DETDFR*, CLMFR*
             (* English or German text if French text is not available)
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ALLFR.PS --- ALLFR, PS only

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             ICS), ICA, ICI, CM, FA, GIS, PGC, CLMN, AB*, MCLM*
             (* German or French text if English text is not available)
BRIEFG ----- BRIEF plus GI
BRIEF.OS --- BRIEF, OS only
BRIEFG.OS -- BRIEF.OS plus GI
BRIEF.PS --- BRIEF, PS only
IBRIEF ----- BRIEF, indented with text labels
IBRIEFG ---- IBRIEF plus GI
IBRIEF.OS -- BRIEF, indented with text labels, OS only
IBRIEFG.OS - IBRIEF.OS plus GI
IBRIEF.PS -- BRIEF, indented with text labels, PS only

BIB -------- AN, ED, UP, EW, FS, TI, TIDE, TIFR, IN, PA, PAN, AG, AGN,
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STD -------- AN, ED, UP, EW, FS, TI, TIDE, TIFR, IN, PA, SO, DS, PIT, PI,
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STD.OS ----- STD, OS only
STD.PS ----- STD, PS only
ISTD ------- STD, indented with text labels
ISTD.OS ---- STD, indented with text labels, OS only
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STDU ------- STD, with German headers
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IND -------- ED, UP, EW, FS, IC (ICM, ICS), ICA, ICI
IND.OS ----- IND, OS only
IND.PS ----- IND, PS only

TRI -------- TI, TIDE, TIFR, IC (ICM, ICS), ICA, ICI, CLMN, PGC, FA, GIS
TRI.OS ----- TRI, OS only
TRI.PS ----- TRI, PS only

TX --------- DETD, CLM
TX.OS ------ TX, OS only
TX.PS ------ TX, PS only
TXDE ------- DETDDE, CLMDE
TXDE.OS ---- TXDE, OS only
TXDE.PS ---- TXDE,  PS only
TXFR ------- DETDFR, CLMFR
TXFR.OS ---- TXFR, OS only
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TXFR.PS ---- TXFR, PS only

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The same formats may be used with the DISPLAY ACC command to display the record for a specified accession number.

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L7 ANSWER 1 OF 2 EUROPATFULL COPYRIGHT 2004 WILA on STN

L7 ANSWER 2 OF 2 EUROPATFULL COPYRIGHT 2004 WILA on STN
ABEN Moldable **collagen** compositions useful in hard tissue repair and augmentation are disclosed. The compositions comprise nonfibrillar **collagen** and a **particulate** material, optionally in combination with biologically active agents. A **particularly** preferred composition comprises fibrillar **collagen**, a fiber disassembly agent, and a **particulate** material. Methods for using the compositions in the repair and augmentation of hard tissue are also disclosed. <image>

=> d l7 1-2 ibib ab

L7 ANSWER 1 OF 2 EUROPATFULL COPYRIGHT 2004 WILA on STN

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER:	1112096 EUROPATFULL EW 200313 FS PS
TITLE:	**COLLAGENOUS** TISSUE COMPOSITIONS. ZUSAMMENSETZUNGEN VON KOLLAGENGEWEBEN. COMPOSITIONS POUR TISSUS A BASE DE MATIERE **COLLAGENE**.
INVENTOR(S):	OLIVER, Roy, Frederick, Priorwell House Gauldry, Fife DD6 8SE, GB; GRANT, Roy, Arthur, 15 Pine Park Mansions 1-3 Wilderton Road, Branksome Park Poole Dorset BH13 6EB, GB
PATENT ASSIGNEE(S):	Tissue Science Laboratories plc, Victoria House, Victoria Road, Aldershot, Hampshire GU11 1EJ, GB
PATENT ASSIGNEE NO:	4173941
AGENT:	Wilson Gunn M'Caw, 41-51 Royal Exchange, Cross Street, Manchester M2 7BD, GB
AGENT NUMBER:	101771
OTHER SOURCE:	MEPB2003013 EP 1112096 B1 0006
SOURCE:	Wila-EPS-2003-H13-T1
DOCUMENT TYPE:	Patent
LANGUAGE:	Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES:	R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE
PATENT INFO.PUB.TYPE:	EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale Anmeldung)

PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 1112096	B1	20030326
'OFFENLEGUNGS' DATE:		20010704
APPLICATION INFO.: EP 1999-946309		19990910
PRIORITY APPLN. INFO.: GB 1998-19882		19980911
RELATED DOC. INFO.: WO 99-GB3013		990910 INTAKZ

	WO 00015274		000323	INTPNR	
REFERENCE PAT. INFO.:	EP 83868	A		EP 251695	A
	EP 697218	A		WO 93-13755	A
	US 4582640	A		US 4837285	A
	US 5256140	A		US 5523291	A
	US 5705488	A			

L7 ANSWER 2 OF 2 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 747067 EUROPATFULL EW 199650 FS OS

TITLE: Moldable **collagen** compositions for hard tissue repair and augmentation.
Verformbare **Collagengemische** zur Hartgeweberegenerierung und Vermehrung.
Compositions de **collagene** moulables pour la reparation des tissus durs et augmentation.

INVENTOR(S): McMullin, Hugh R., 2151 Manzanita, Menlo Park, California 94025, US;
Schroeder, Jacqueline A., 1133 Woodrow Street, Redwood City, CA 94061, US

PATENT ASSIGNEE(S): COLLAGEN CORPORATION, 2500 Faber Place, Palo Alto, California 94303, US

PATENT ASSIGNEE NO: 255151

AGENT: Schwan, Gerhard, Dipl.-Ing., Elfenstrasse 32, 81739 Muenchen, DE

AGENT NUMBER: 10931

OTHER SOURCE: ESP1996067 EP 0747067 A2 961211

SOURCE: Wila-EPZ-1996-H50-T1b

DOCUMENT TYPE: Patent

LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R AT; R CH; R DE; R ES; R FR; R GB; R IT; R LI; R NL

PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG

PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 747067	A2	19961211

'OFFENLEGUNGS' DATE: 19961211

APPLICATION INFO.: EP 1996-108504 19960529

PRIORITY APPLN. INFO.: US 1995-481595 19950607

ABEN Moldable **collagen** compositions useful in hard tissue repair and augmentation are disclosed. The compositions comprise nonfibrillar **collagen** and a **particulate** material, optionally in combination with biologically active agents. A **particularly** preferred composition comprises fibrillar **collagen**, a fiber disassembly agent, and a **particulate** material. Methods for using the compositions in the repair and augmentation of hard tissue are also disclosed. <image>